

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P123662

Luminaire Tested: **EL406930-TL410H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P123662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13974)
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: EL406930-TL410H
Description: HALO 4-INCH RECESSED LED DOWNLIGHT
HAZE SEMI-SPECULAR REFLECTOR, DIFFUSE DROP LENS AND WHITE TRIM RING
Light Source: (1)SURFACE MOUNT LED, 3000K CCT, 90CRI
Ballast/Driver: ELECTRONIC DRIVER

Summary

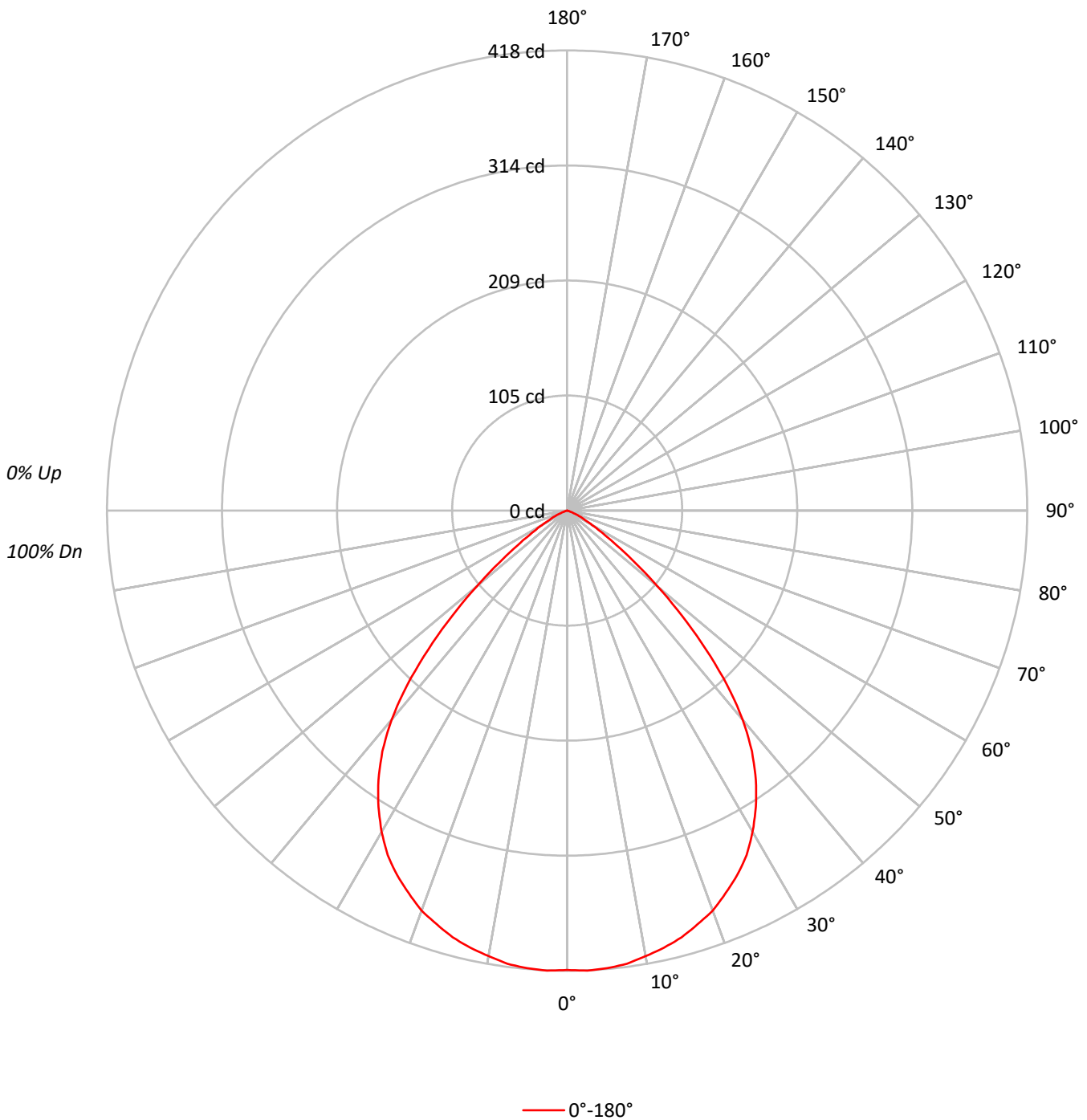
Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66
5	86	75	68	63	84	74	68	63	72	66	62	71	65	61	69	64	61	59
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67229
5°	67485
10°	67235
15°	66948
20°	66297
25°	64971
30°	62691
35°	58805
40°	52219
45°	40669
50°	27018
55°	15420
60°	8506
65°	4841
70°	1978
75°	685
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	5.6
10°-20°	113.1	15.9
20°-30°	167.9	23.6
30°-40°	185.2	26.1
40°-50°	136.7	19.2
50°-60°	52.7	7.4
60°-70°	13.1	1.8
70°-80°	1.7	0.2
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	320.6	45.2
0°-40°	505.9	71.2
0°-60°	695.2	97.9
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	417	
5°	417	40
15°	401	113
25°	366	168
35°	299	185
45°	178	137
55°	55	53
65°	13	13
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	417.3
2.5°	418.3
5°	417.3
7.5°	415.2
10°	411.0
12.5°	406.7
15°	401.4
17.5°	394.1
20°	386.7
22.5°	376.1
25°	365.5
27.5°	352.9
30°	337.0
32.5°	319.0
35°	299.0
37.5°	275.7
40°	248.3
42.5°	215.5
45°	178.5
47.5°	141.6
50°	107.8
52.5°	78.2
55°	54.9
57.5°	38.0
60°	26.4
62.5°	18.0
65°	12.7
67.5°	7.4
70°	4.2
72.5°	2.1
75°	1.1
77.5°	1.1
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)